

**INTEGRATED CONTROL OF POWER DELIVERY TO FIRING  
RESISTORS FOR INKJET PRINthead ASSEMBLY**

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**Abstract of the Disclosure**

An inkjet printhead assembly includes at least one inkjet printhead having an internal power supply path, a power regulator providing an offset voltage from the internal power supply path voltage, and multiple primitives. Each primitive includes a group of nozzles, a corresponding group of firing  
10 resistors, and a corresponding group of switches. The switches are controllable to couple a selected firing resistor between the internal power supply path and the offset voltage to thereby permit electrical current to pass through the selected firing resistor to cause a corresponding selected nozzle to fire.